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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,146	04/19/2004	Manfred Heinritz	SSM-491US1	2663
23122	7590	02/09/2005	EXAMINER	
RATNERPRESTIA P O BOX 980 VALLEY FORGE, PA 19482-0980			LAVILLA, MICHAEL E	
		ART UNIT		PAPER NUMBER
		1775		
DATE MAILED: 02/09/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/827,146	HEINRITZ ET AL.	
	Examiner	Art Unit	
	Michael La Villa	1775	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 9/23/04, 8/27/04, and 7/14/04.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,3-5,8,12 and 13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1, 3-5, 8, and 13 is/are rejected.
- 7) Claim(s) 12 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 19 April 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. 10/008,664.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 20040419, 20040714.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: IDS:20040827.

DETAILED ACTION***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 2. A person shall be entitled to a patent unless –
 3. (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
 4. Claims 1 and 3-5, 8, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Thome USP 4,602,416. Thome teaches a crushing bar, having a cylindrical structure with circular cross-section, formed from casting a single alloy composition and having distinct core and surface regions, wherein the surface region is comprised of carbide materials. The bar of Thome, while not explicitly used as a roll barrel, would be capable of use as a roll barrel. See Thome (col. 1, line 43 through col. 2, line 68; col. 3, line 38 through col. 5, line 24). White cast iron is broadly understood to require the presence of carbide materials, which are discussed in Thome. Grey cast iron is broadly understood to require the presence of graphite, which would be expected in view of the high carbon content in the material of Thome, absence of fast quenching, and observed differences in structure between the carbide containing shell layer and the core structure.

Allowable Subject Matter

5. Claim 12 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Neither the reviewed prior art nor the prior art of record teaches or suggests the subject matter of this claim. Particularly, the incorporation of fiber materials in the cast metal alloy composition such that the fibers are oriented in the casting direction, in combination with the other claimed limitations, is not taught or suggested.

Response to Amendment

- I. Regarding the section 112, first and second paragraph rejections pending in the earlier application, Serial No. 10/008,664, that was abandoned, these rejections are not applicable in view of the claim amendments.
- II. Regarding the section 102 rejection over Schrewe pending in the earlier application, Serial No. 10/008,664, that was abandoned, this rejection is not applicable in view of the claim amendments to require circular cylindrical shape roll barrel of white cast iron shell and gray cast iron core.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone

number is (571) 272-1539. The examiner can normally be reached on Tuesday, Thursday, and alternating Fridays.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael La Villa
3 February 2005

A handwritten signature in black ink, appearing to read "La Villa".